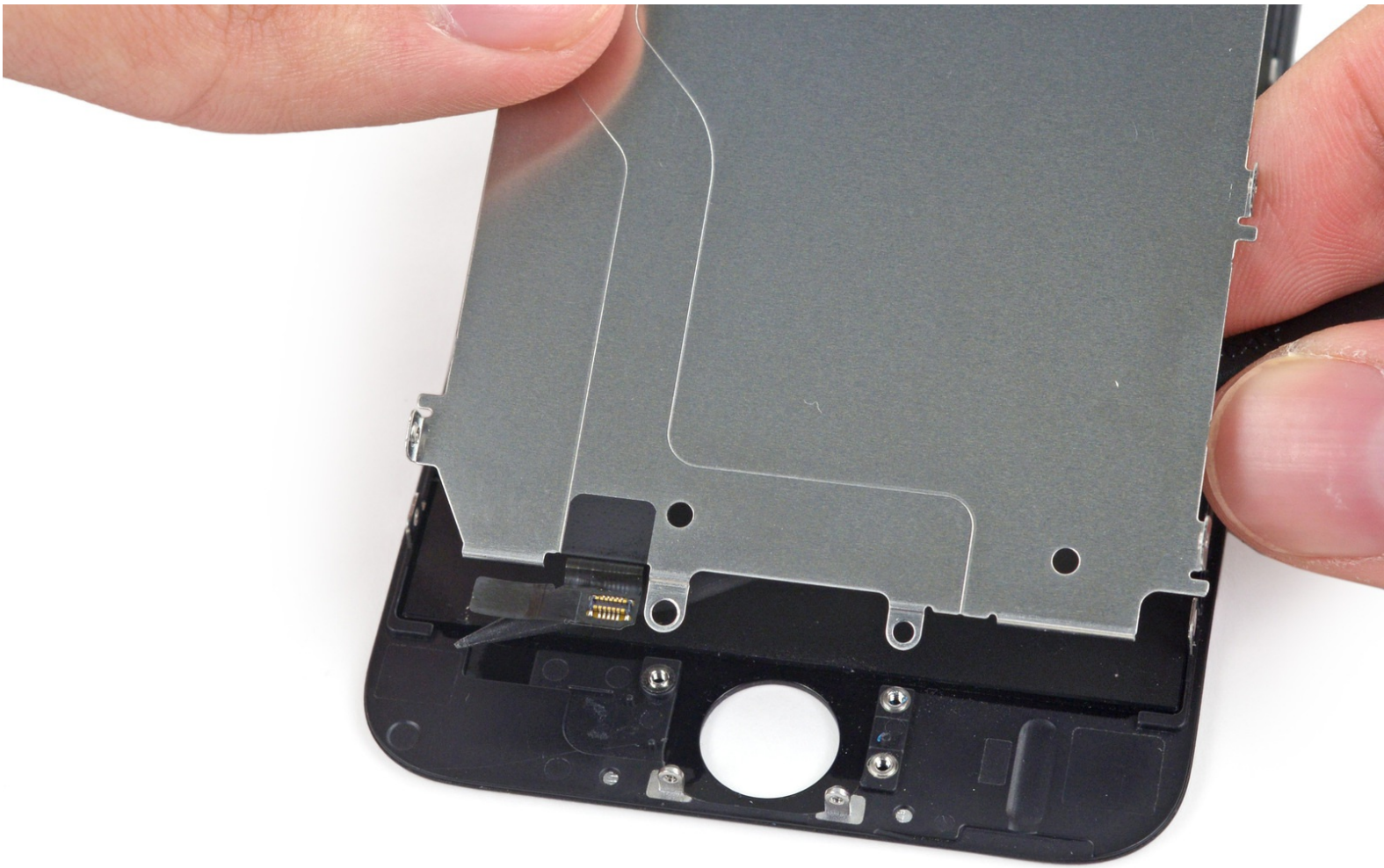




iPhone 6 Front Panel Replacement

Replace the bare front panel of an iPhone 6.

Written By: Sam Lionheart



INTRODUCTION

Use this guide to strip and replace your cracked or broken iPhone 6 screen. It will show you how to remove the home button, front-facing camera and sensor assembly, LCD shield plate, and home button ribbon cable—all of which will need to be transferred to your replacement panel. To replace the entire assembly instead, follow [this much shorter guide](#).

In either case, it's important to transfer the original home button onto the new display in order for Touch ID (fingerprint scanning) to function.

You can also use this guide to replace the following parts:

- [Front Panel Assembly Cable Bracket](#)
- [Earpiece Speaker Bracket](#)
- [LCD Shield Plate with Sticker and Home Cable](#)



TOOLS:

- [iSclack](#) (1)
- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Suction Handle](#) (1)
- [Tweezers](#) (1)
- [Spudger](#) (1)



PARTS:

- [iPhone 6 LCD Screen and Digitizer](#) (1)
- [NuGlas Tempered Glass Screen Protector for iPhone 6 6s](#) (1)
- [iPhone 6 Front Panel Assembly Cable Bracket](#) (1)
- [iPhone 6 LCD Shield Plate with Sticker and Home Cable](#) (1)
- [iPhone 6 Earpiece Speaker Bracket](#) (1)

Step 1 — Pentalobe Screws



 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.6 mm Pentalobe screws next to the Lightning connector.

Step 2 — iSclack Opening Procedure



- i** The next three steps demonstrate using the iSclack, a great tool for safely opening the iPhone 6 that we recommend for anyone doing more than one repair. **If you aren't using the iSclack, skip down three steps for an alternate method.**
- If the plastic depth gauge is attached at the center of the iSclack, remove it now—it's not needed for larger phones like the iPhone 6.
 - Close the handle on the iSclack, opening the suction-cup jaws.

Step 3



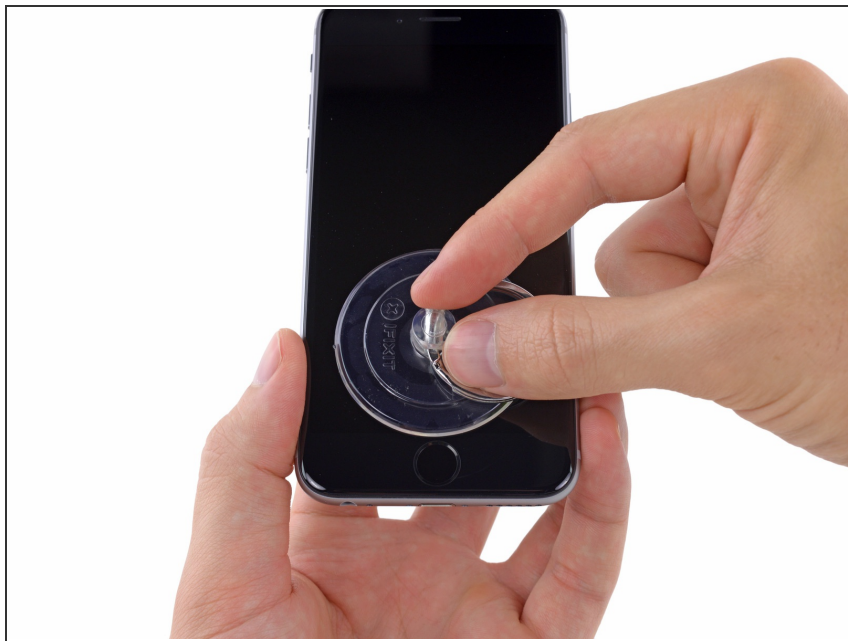
- Place the bottom of your iPhone in between the suction cups.
 - Position the iSclack's upper suction cup against the display, just above (but not covering) the home button.
- Open the handles to close the jaws of the iSclack. Center the suction cups and press them firmly onto the top and bottom of the iPhone.

Step 4



- Hold onto your iPhone securely and close the handle of the iSlack to separate the suction cups, pulling the front panel up from the rear case.
- The iSlack is designed to safely open your iPhone just enough to separate the pieces, but not enough to damage the display cables.
- Peel the two suction cups off your iPhone.
- **Skip the next three steps and continue on to Step 8.**

Step 5 — Manual Opening Procedure




- If you don't have an iSlack, use a single suction cup to lift the front panel:
- Press a suction cup onto the screen, just above the home button.
- ⓘ Be sure the cup is pressed securely onto the screen to get a tight seal.


Step 6



- While holding the iPhone down with one hand, pull up on the suction cup to slightly separate the front panel assembly from the rear case.

 Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices.

- Using a plastic opening tool, begin to gently pry the rear case down, away from the display assembly, while continuing to pull up with the suction cup.

 There are several clips holding the front panel assembly to the rear case, so you may need to use a combination of the suction cup and plastic opening tool to free the front panel assembly.

Step 7



- Pull the plastic nub to release the vacuum seal on the suction cup.
- Remove the suction cup from the display assembly.

Step 8 — Opening up the phone



- Open the iPhone by swinging the home button end of the front panel assembly away from the rear case, using the top of the phone as a hinge.
 - ⓘ Several clips along the top edge of the front panel form a partial hinge.
 - ☑ During reassembly, align the clips just below the top edge of the rear case. Then, slide the front panel upward until its top edge is flush with that of the rear case.

Step 9



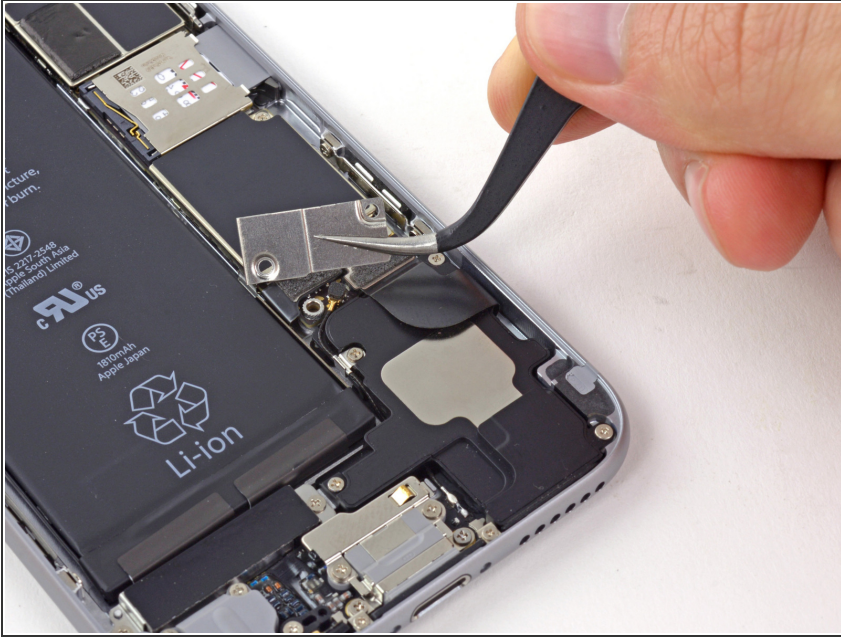
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
 - ⓘ In a pinch, an unopened canned beverage works well for this.
- Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.

Step 10 — Removing the battery connector bracket screws



- Remove the following Phillips screws from the battery connector bracket:
 - One 2.2 mm screw
 - One 3.2 mm screw

Step 11



- Remove the metal battery connector bracket from the iPhone.

Step 12 — Disconnecting the battery connector



- Use a plastic opening tool to gently pry the battery connector up from its socket on the logic board.
- ⚠ Take care to only pry up on the battery connector, and not the socket on the logic board. If you pry up on the logic board socket, you may break the connector entirely.

Step 13 — Removing the front panel assembly cable bracket screws



- Remove the following five Phillips screws securing the front panel assembly cable bracket:

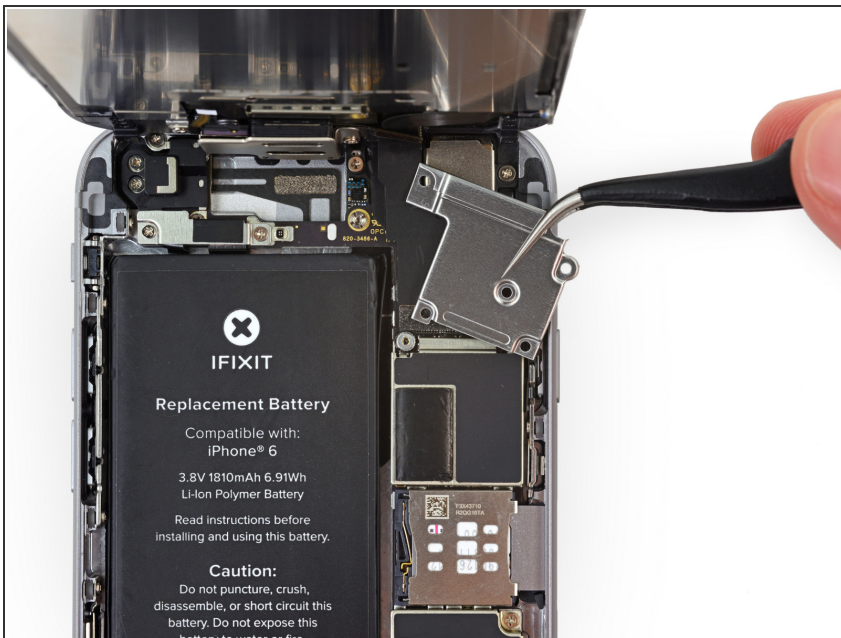
- Three 1.2 mm screws

- One 1.7 mm screw

- One 3.1 mm screw

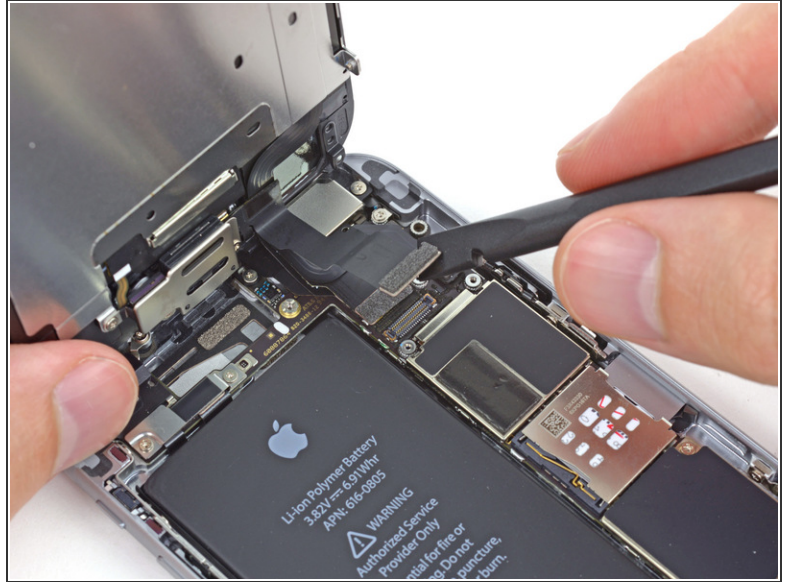
⚠ Incorrect placement of these screws during reassembly will cause permanent damage to your iPhone's logic board.

Step 14



- Remove the front panel assembly cable bracket from the logic board.

Step 15



⚠ In the next four steps, take care to pry up **only** on the cable connectors, and not on their sockets on the logic board.

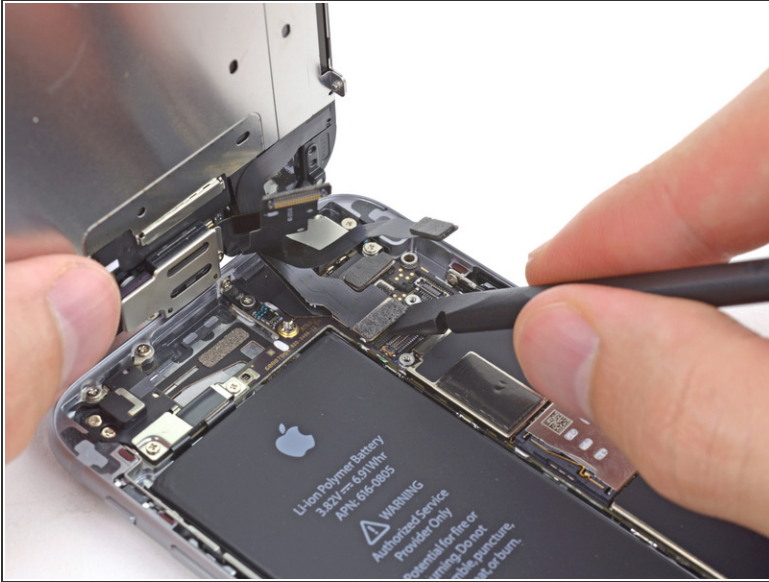
- Use the flat end of a spudger to disconnect the front-facing camera and sensor cable connector.

Step 16



- Use the flat end of a spudger to disconnect the home button cable connector.

Step 17



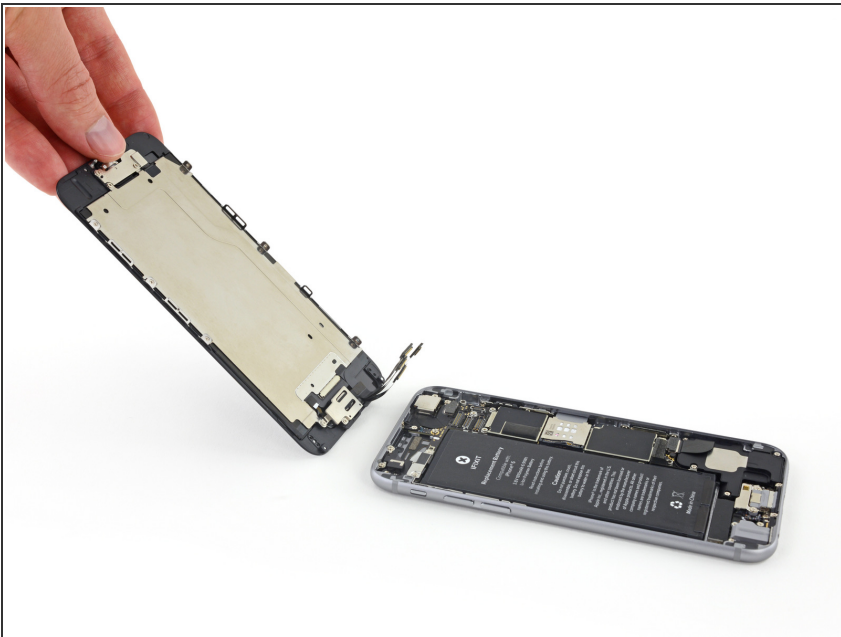
- Use the flat end of a spudger to disconnect the display data cable connector.
- ✦ When reassembling your phone, the display data cable may pop off its connector. This can result in white lines or a blank screen when powering your phone back on. If that happens, simply reconnect the cable and power cycle your phone. The best way to power cycle your phone is to [disconnect and reconnect the battery connector](#).

Step 18



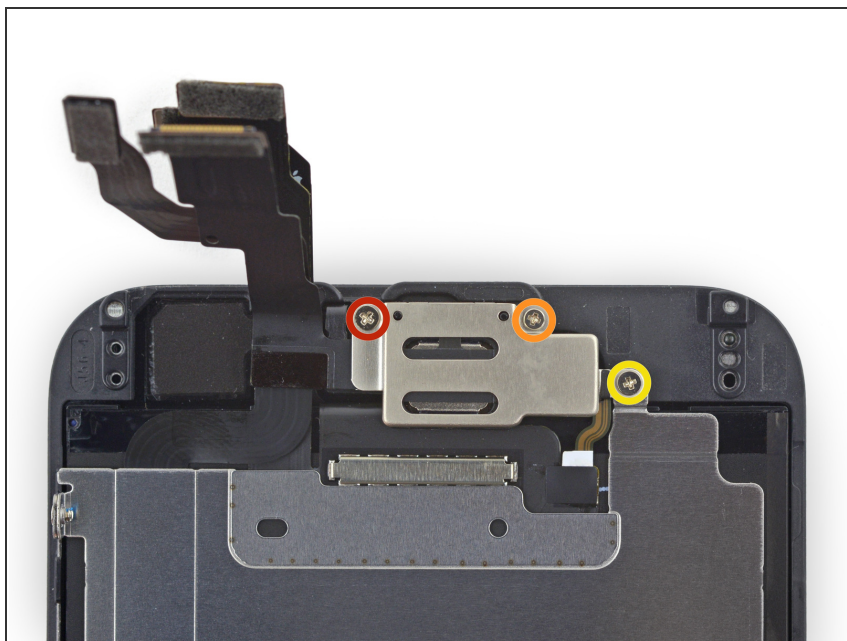
- Use the flat end of a spudger to disconnect the digitizer cable connector.
- ✦ When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

Step 19 — Separating front panel assembly and rear case



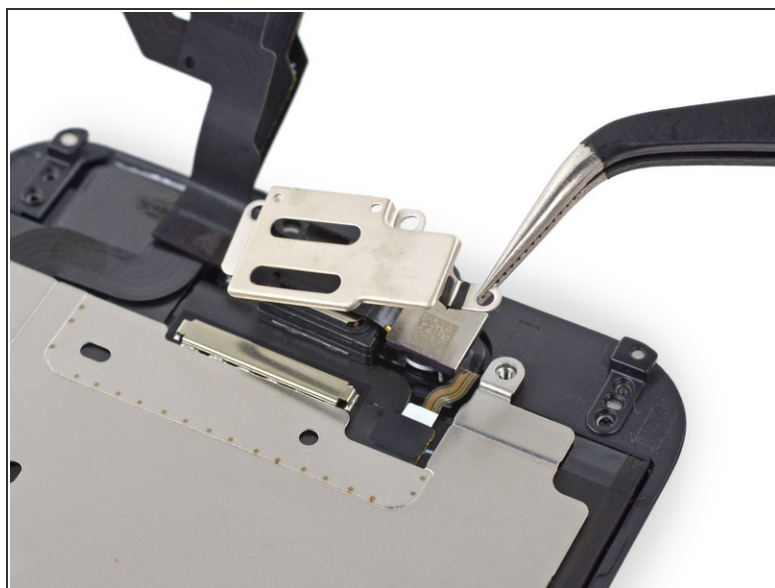
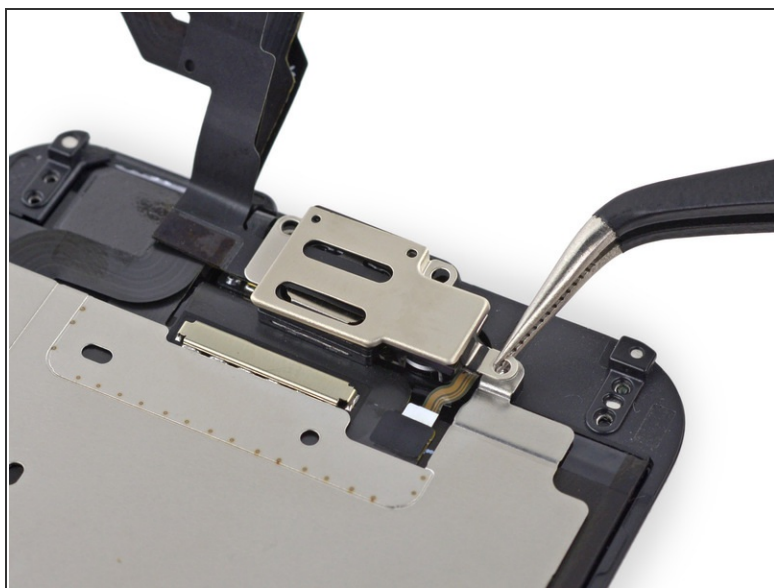
- Remove the front panel assembly from the rear case.

Step 20 — Earpiece Speaker



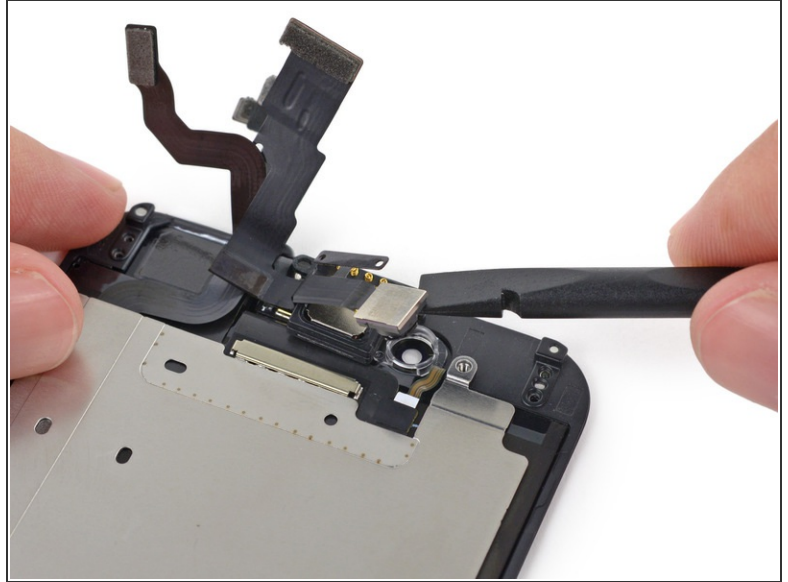
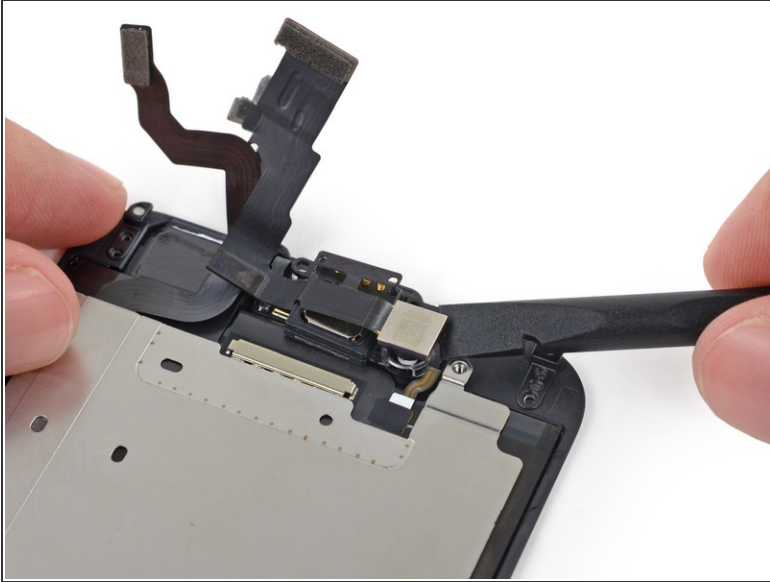
- Remove the following Phillips screws from the earpiece speaker/front-facing camera bracket:
 - One 2.3 mm screw
 - One 3.0 mm screw
 - One 2.2 mm screw

Step 21



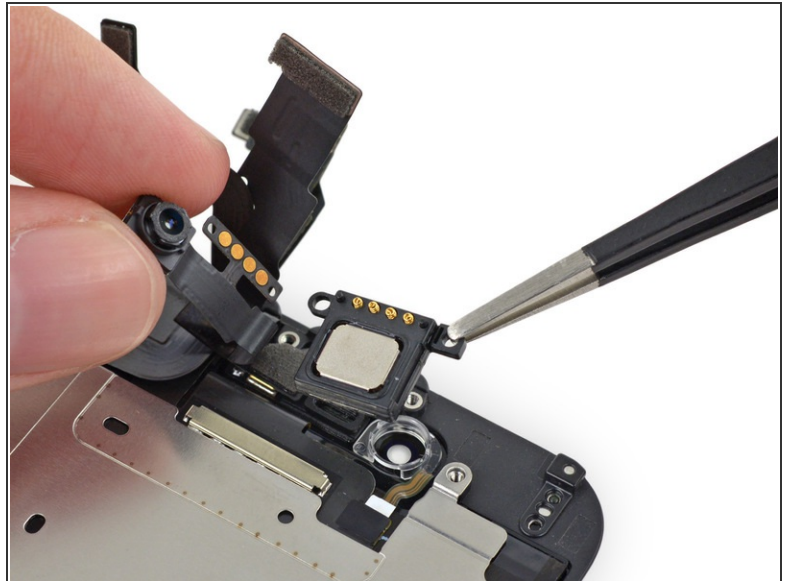
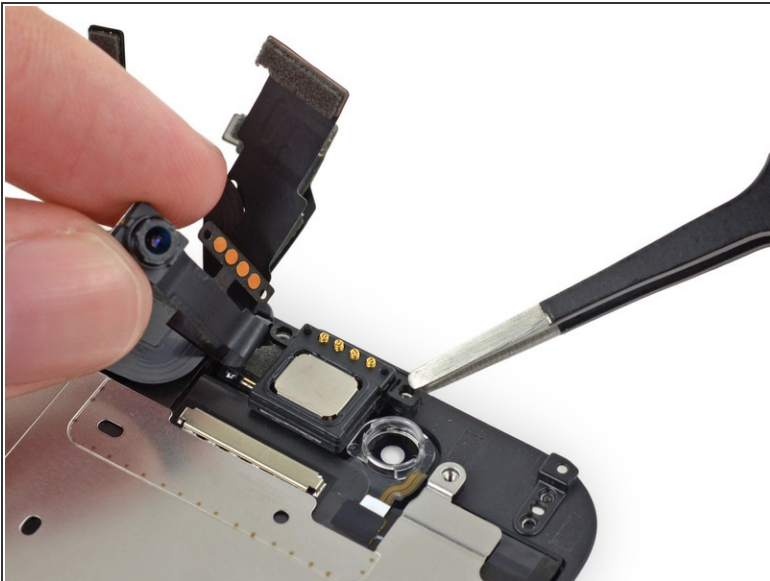
- Remove the earpiece speaker/front-facing camera bracket from the front panel.

Step 22



- Lift the front-facing camera out of its recess in the front panel.

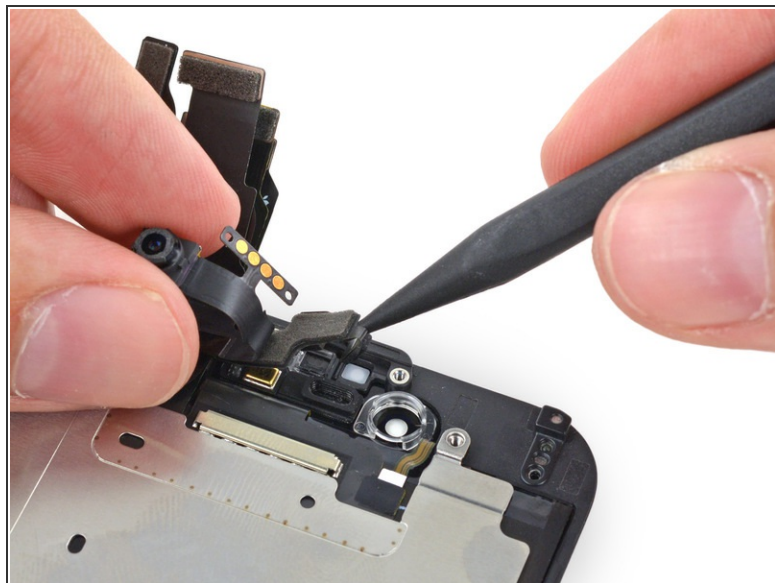
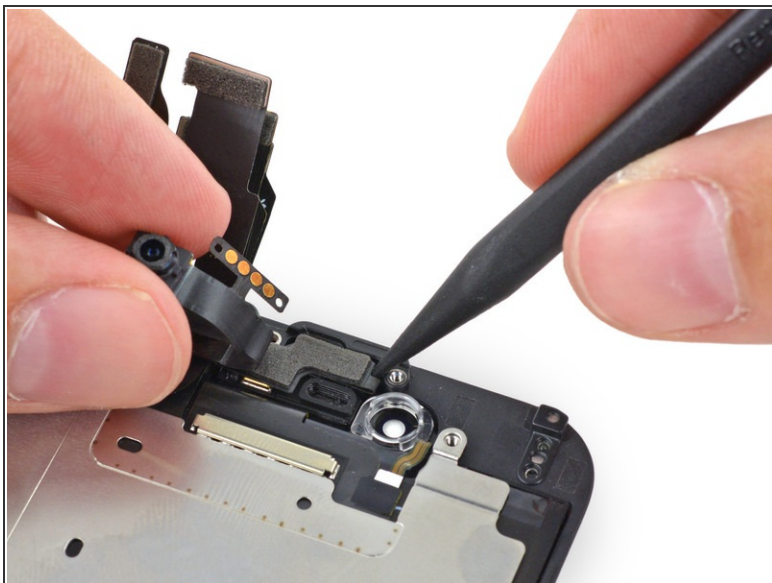
Step 23



- Holding the front-facing camera out of the way, remove the earpiece speaker from the front panel.

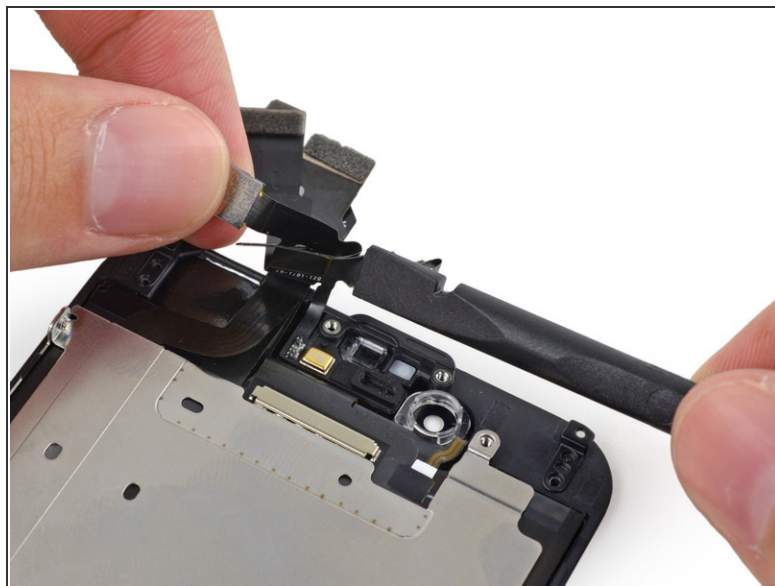
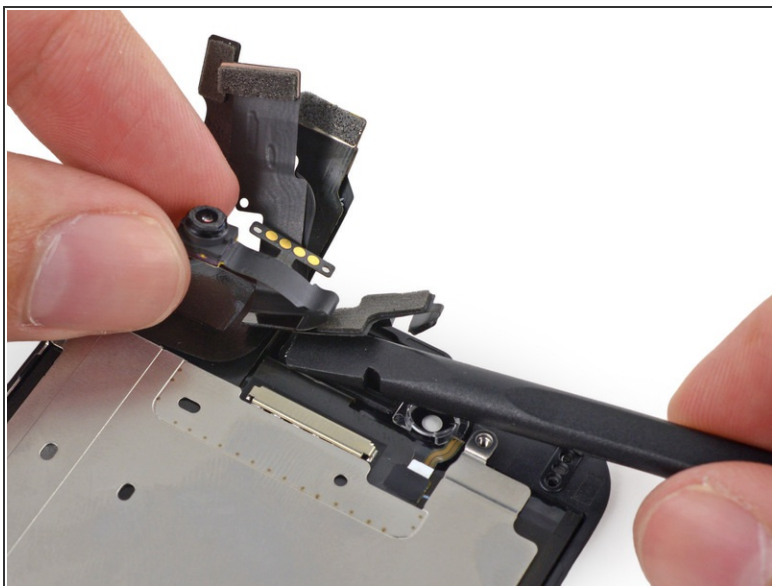
⚠ Be careful not to touch any of the contacts on the speaker or the cable, oils can damage them and interrupt the connection.

Step 24 — Front-Facing Camera and Sensor Cable



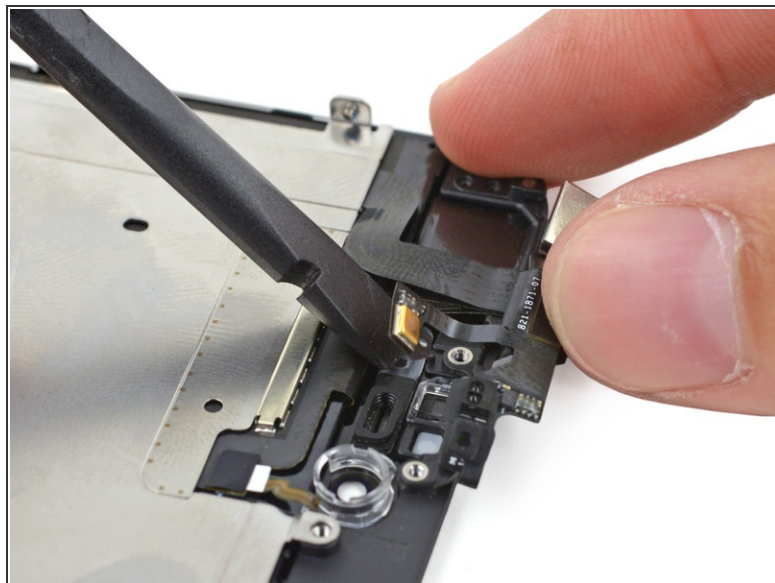
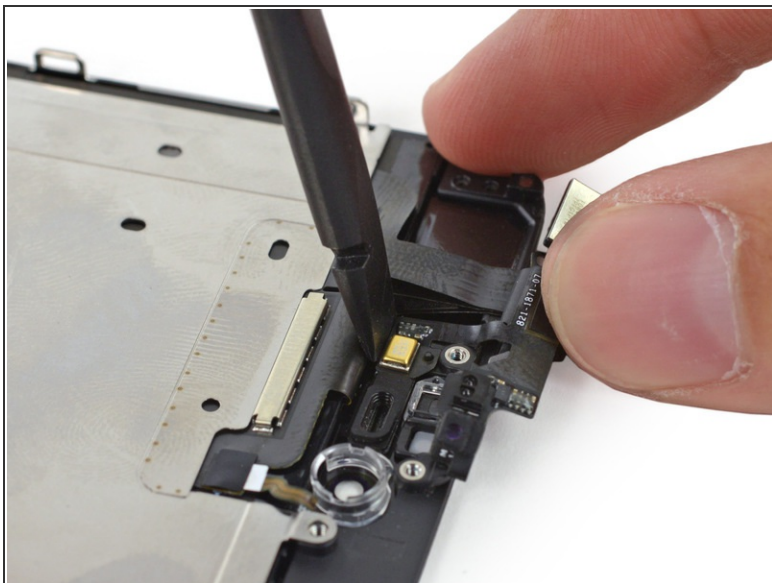
- Keeping the front-facing camera out of the way, use the point of a spudger to push the ambient-light sensor up out of its recess in the front panel.

Step 25



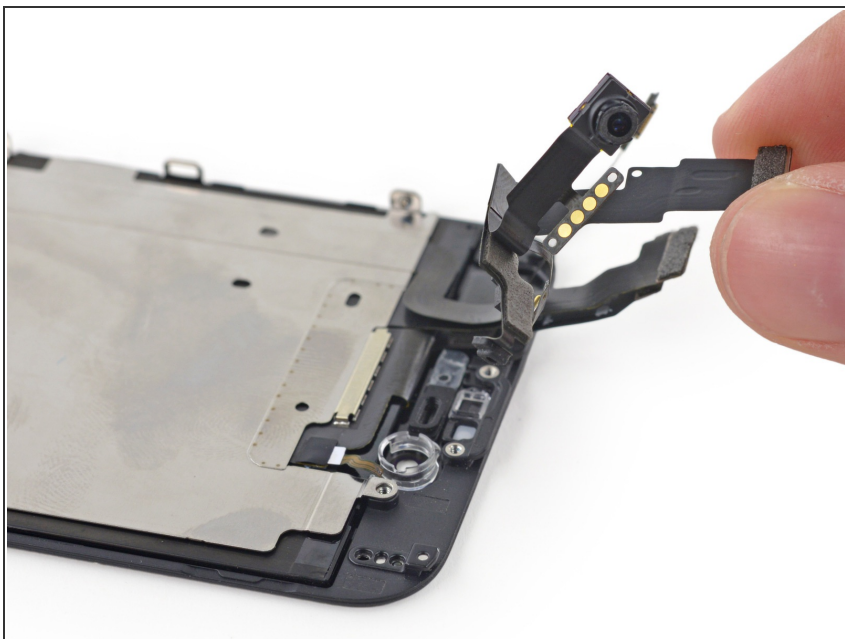
- Fold the front-facing camera and sensor cable up to allow access to the microphone.

Step 26



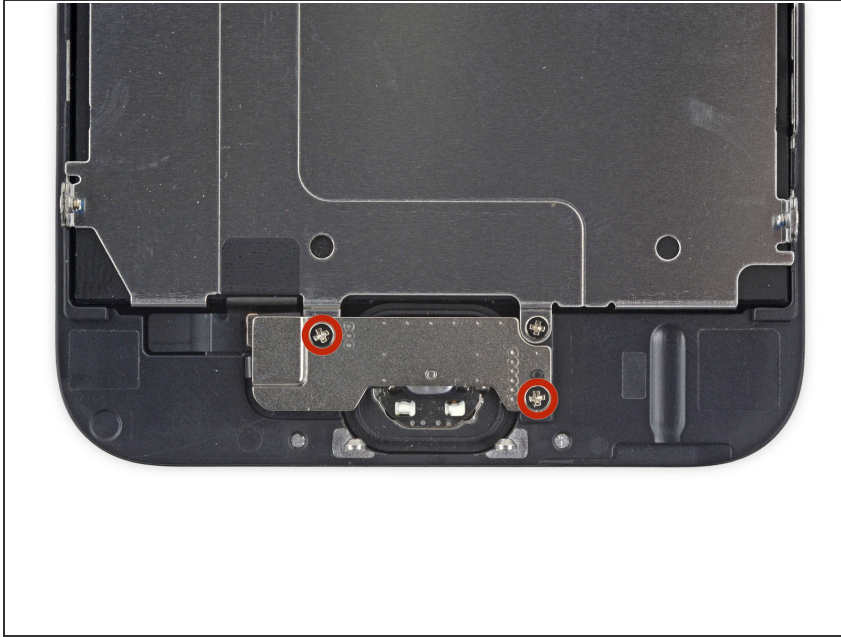
- Carefully pry the microphone end of the sensor cable off of the adhesive holding it to the front panel.

Step 27



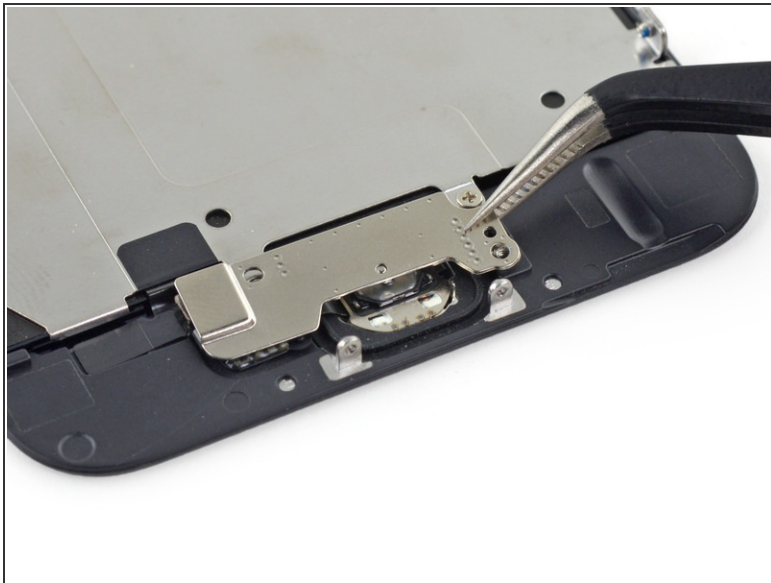
- Remove the front-facing camera and sensor cable from the front panel.

Step 28 — Home Button



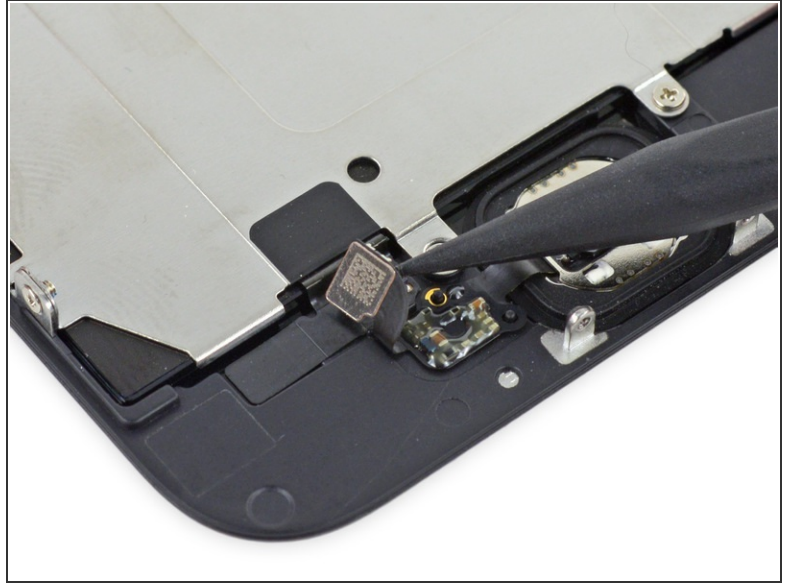
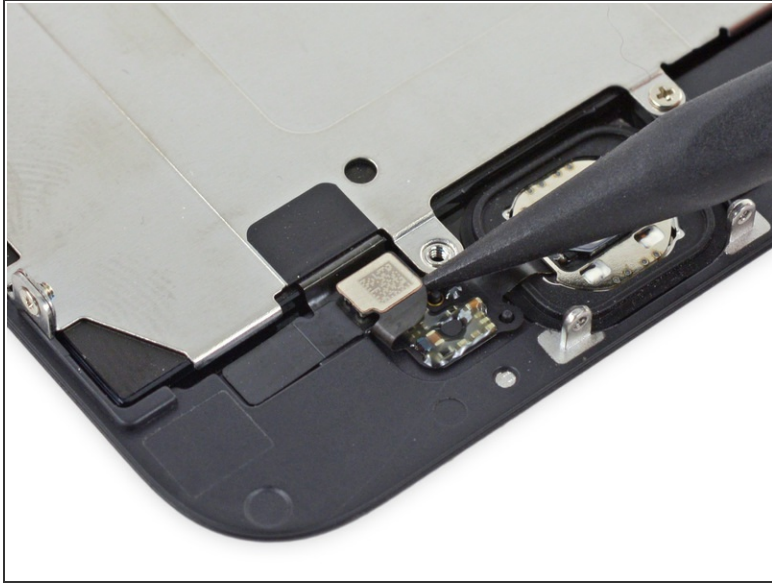
- Remove the two 1.9 mm Phillips screws securing the home button bracket.

Step 29



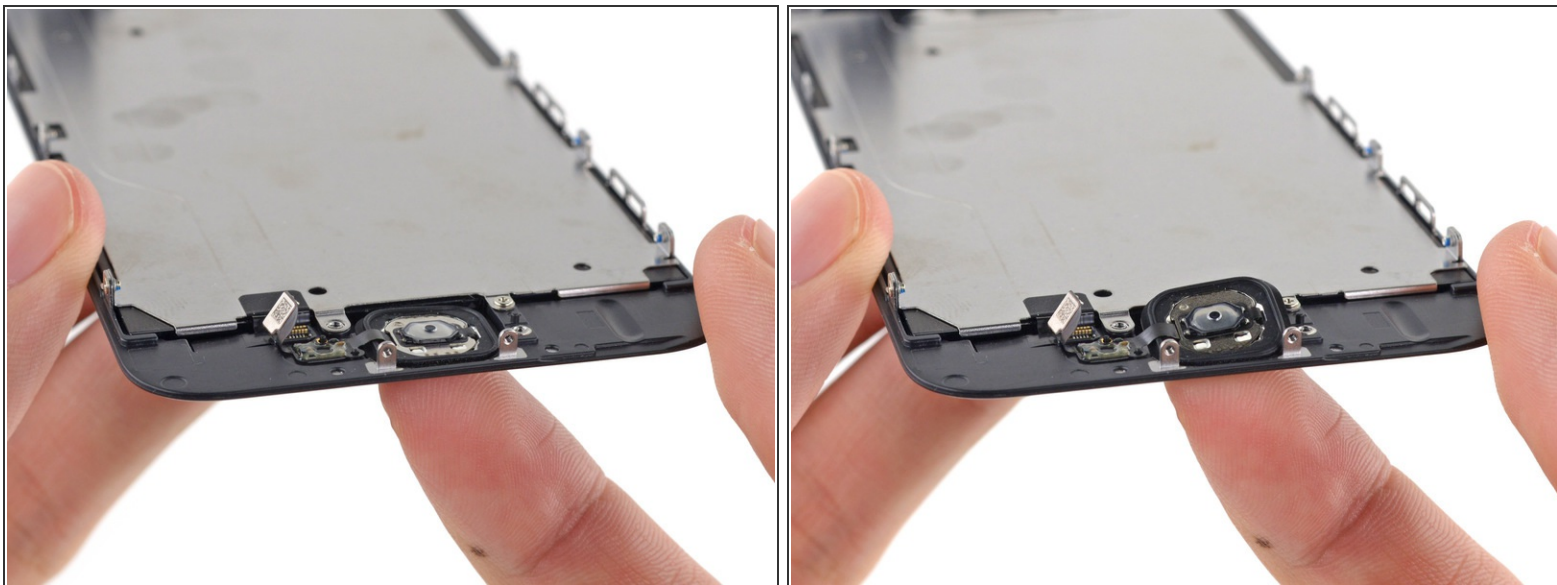
- Remove the home button bracket from the front panel.

Step 30





- Use the point of a spudger to disconnect the home button cable connector by pushing it up and away from the home button.

Step 31



- Gently push the top left corner of the home button up away from the front panel.

 Do not push the home button all the way through—you only need to get a corner free so that you can pry it free with a spudger.

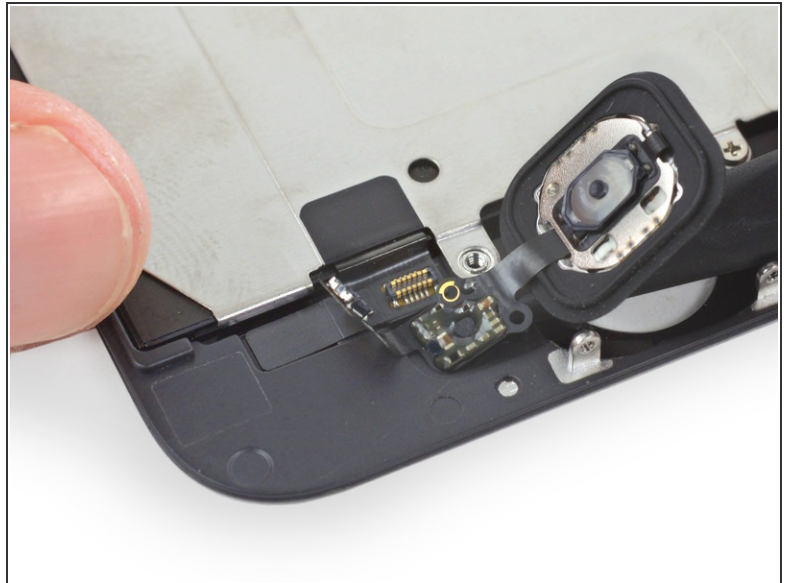
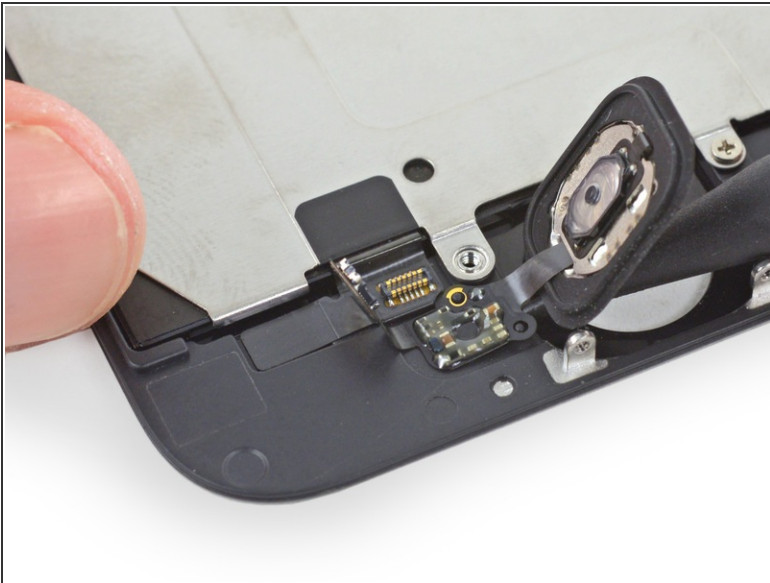
 This membrane is very thin. If you feel like you're going to tear the button, apply mild heat (with an [iOpener](#), heat gun, or hair dryer) and try again.

Step 32



- Peel the home button the rest of the way off of the display by prying gently with a spudger.

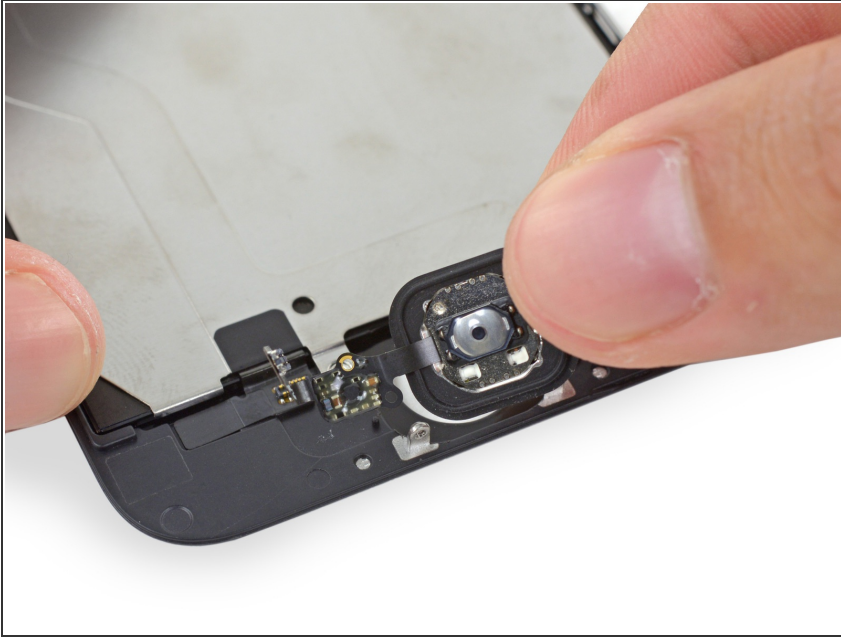
Step 33



- Use the point of a spudger to carefully separate the home button cable from the adhesive securing it to the front panel.

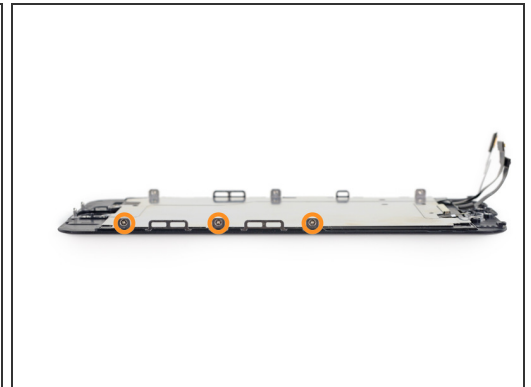
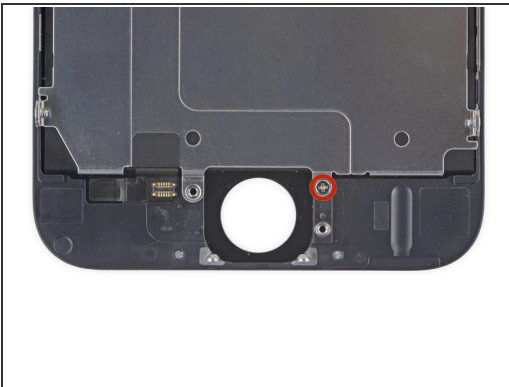
⚠ If the cable doesn't separate easily, apply heat using an [iOpener](#) or hair dryer to soften the adhesive, and try again. Be careful not to damage the cable.

Step 34



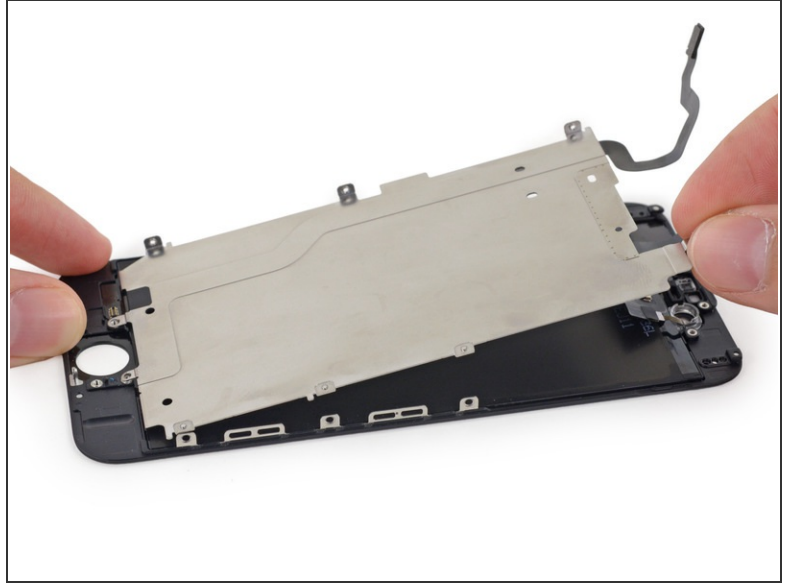
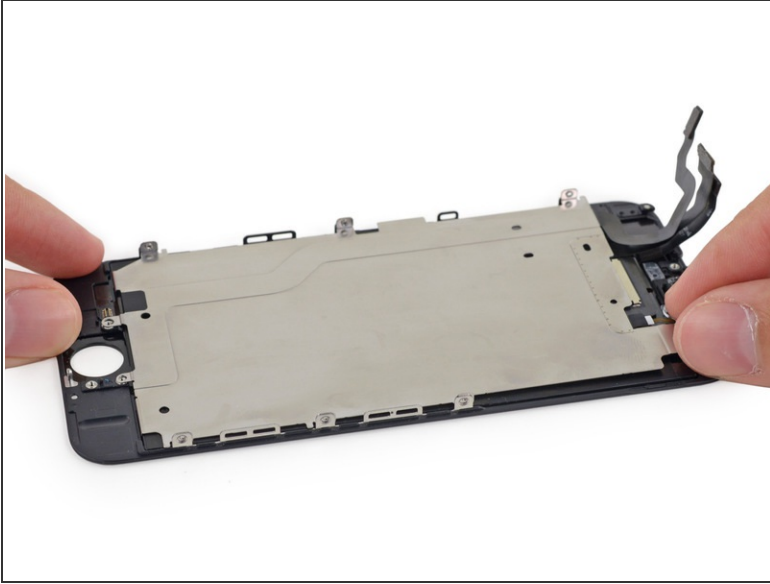
- Once all the adhesive has been separated, remove the home button from the front panel.
- ⓘ If you are replacing a broken front panel, there may be glass shards stuck to the home button. Carefully remove any remaining glass before transferring your home button to a new display.

Step 35 — Front Panel



- Remove the following Phillips #00 screws securing the LCD shield plate to the front panel:
 - One 1.7 mm screw
 - Six 1.6 mm screws (three on each side)

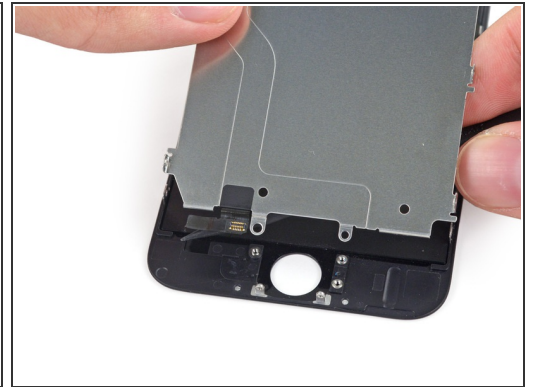
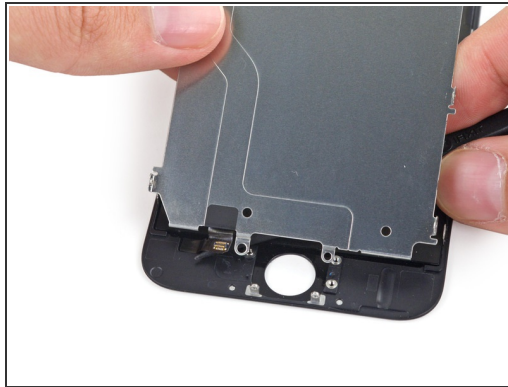
Step 36



- Lift the front-facing camera end of the LCD shield plate up slightly.

⚠ Do not attempt to remove the shield plate entirely, it is still attached to the front panel by the adhered-down home button cable.

Step 37



- Slide the point of a spudger behind the shield plate to gently peel the home button cable up off of the front panel.

⚠ The home button cable is very thin, go slowly and be careful not to rip it.

- Remove the LCD shield plate.

To reassemble your device, follow these instructions in reverse order.

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